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APPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9442
09/942,577	•	08/31/2001	Kota Kiyama	35.C15744	
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	-	LLA HARPER &	EXAMINER		
30 ROCKEFELLER PLAZA NEW YORK, NY 10112				. TRAN, LY T	
				ART UNIT	PAPER NUMBER
				2853	
		•		DATE MAILED: 05/12/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.			- Ju					
Examiner Ly TTRAN 2553		Application No.	Applicant(s)					
LyTTRAN 2953 Period for Reply	Office Action Commence	09/942,577	KIYAMA, KOTA					
The MALING DATE of this communication appears on th cov r sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Extensions of inem ray be available under the provious of 3 CFR 1.13(s). In revent, however, may a ripty be limitely filed. If the period for reply specified above is less than thinly (30) days, a reply with the stationy review with grow and will reply an address of the communication of 5 CFR 1.73(s). If the period for reply specified above is less than thinly (30) days, a reply with the station y review may a ripty be limitely filed. If the period for reply specified above is less than thinly (30) days, a reply with the station provided sign and will deprive 30 (a) days will be considered sinely. If the period for reply is specified above is less than thinly (30) days, and so the station provided by the considered sinely. If the period for reply is period to reply specified above is less than thinly (30) days will be considered sinely. If the period for reply specified above is less than thinly (30) days will be considered sinely. If the period for reply specified above is less than thinly (30) days will be considered sinely. If the period for reply specified above is less than thinly (30) days will be considered sinely. If the period for reply is period and the period of the period will be considered and the period of the specified and the period of the specified and the period will be considered and the period of the specified and the period of the specified and the period of	Oπice Action Summary	Examiner	Art Unit					
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THE MAILING DATE OF THIS COMMUNICATION. Elethorison of time may be evalible under the provision of 37 CFR 1.15(6). In or event, however, may a reply be timely flied after SIX (6) MONTHS from the making date of this communication. **Provision of time may be evalible under the provision of 37 CFR 1.15(6). In or event, however, may a reply be timely flied after SIX (6) MONTHS from the making date of this communication. **Pallwe to reply within the set or extended period for reply will, by statute, cause the application to become ARANDONED (36 U.S. § 133). **Any reply received by the Official exits than there incrinish shart the making date of this communication, even if I finely flied, may reduce any statute period of the communication, even if I finely flied, may reduce any statute time adjustment. Set 97 CFR 1.794(b). **Status** **This action is FINAL.** 2 b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 1-5 and 11-15 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-5 and 11-15 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner. 8) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or forward of the approved by the Examiner. 11 fapproved, corrected drawings are required in reply to this office action. 12 The eath or declaration is objected to by the Examiner. 12 The oath or declaration is objected to by the Examiner. 13 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 14 Acknowledgment is made of a claim for domestic priority documents have been received.								
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/10/03 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-5 and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koto et al. (JP 143025) in view of Tsuruoka (USPN 5,502,545)

Koto et al discloses a recording apparatus for rotating an endless belt member and supplying electricity to the belt member so as absorb a recording medium to the surface of the belt member and performing a recording on the recording medium by a recording device (Abstract) and a recording medium conveyance apparatus comprising:

conveyance mechanism comprising a belt (Fig.2: element 16)
 which conveys by rotating while contacting a recording medium ,

- a fastening force generation mechanism for fastening the recording medium to the belt (Abstract)) comprising an electrical feeding member capable of supplying electricity to the belt member comprising a portion to be fed at a first voltage value for fastening the recording medium (Abstract) to a position of the endless belt member located opposed to the recording device (Fig.2: element 31),
- a plurality of electrodes which line up in such a manner as to be
 along the surface contacting the recording medium of the belt and
 an electrical feeding member for applying a voltage in such a
 manner that the adjacent electrodes have different potentials and
 plurality of electrodes are provided in the belt (Abstract),
- recording device is an ink jet recording head and ink jet recording head uses a thermal energy as energy for emitting the ink (Fig.2: element 40).

However, Koto et al. fails to teach:

- a conveyance failure detection element for detecting a conveyance failure of the recording medium,
- a control portion for performing a control of belt member and electrical feeding member based on a detection signal of the conveyance failure detection element, the electrical feeding

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member feeding the second electrical voltage value to remove an attraction force of the endless belt member,

- discharge portion for discharging a recording medium outside the apparatus and the conveying failure detection element is a discharge conveyance failure detection element for detecting the conveyance failure of the recording medium in the vicinity of the discharge portion,
- control portion control the electrical feeding member in such a
 manner that the potentials of plurality of electrodes are equalized
 according to the detection of the conveyance failure by the
 conveyance failure detection element and control portion performs
 an elimination of the charge which is charged in the plurality of
 electrodes according to the detection of the conveyance failure

Tsuruoka teaches:

- a conveyance failure detection element for detecting a conveyance failure of the recording medium (Column 8: line 60-63)
- a control portion for performing a control of belt member and electrical feeding member based on a detection signal of the conveyance failure detection element, the electrical feeding member feeding the second electrical voltage value to the position of the endless belt member (Fig.2: element 37, Column 11: line 11-67, Column 12: line 1-19 and Abstract, by destaticize the transfer

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belt, no voltage or a zero voltage is applied to the belt, the zero voltage is a second voltage value fed to the belt)

- discharge portion for discharging a recording medium outside the apparatus and the conveying failure detection element is a discharge conveyance failure detection element for detecting the conveyance failure of the recording medium in the vicinity of the discharge portion (Fig.2: element S9).
- With respect to the limitation of control portion control the electrical feeding member in such a manner that the potentials of plurality of electrodes are equalized according to the detection of the conveyance failure by the conveyance failure detection element and control portion performs an elimination of the charge which is charged in the plurality of electrodes according to the detection of the conveyance failure, while Tsuruoka does not specifically teach these features, Tsuruoka teaches applying electricity to the belt member so as to absorb a recording medium to the surface of the belt (Column 5: line 52-62) detecting conveyance failure (Column 8: line 60-63) and based on the detection, destaticize the transfer belt (Abstract), it does provide the general teaching of cutting of the voltage by destaticize the transfer belt to equalize the potentials of plurality of electrodes, so as to easily to remove the paper jam.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the teaching of Koto et al. to have a detector, feeding a second voltage to the belt, equalize the potentials of plurality of electrodes as taught by Tsuruoka. The motivation of doing so is easier to release paper jam.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koto et al. (JP 143025) in view Tsuruoka (USPN 5,502,545) as applied to claim 1 above, further in view of Stoeberl (USPN 4,549,826).

The combination of Koto and Tsuruoka fails to teach the conveyance failure element detects a separation gap of the recording medium on the belt member from the belt member in the direction of the recording device.

Stoebert teaches a sensor coupled to the paper leveling gap, detecting curl paper ends, folds at the end of the roll that are too pronounced and that could potentially lead to jamming of the paper (Column 1: line 11-12, line 45-52) by detecting the curl paper end, the gap between the belt and the paper is obtain in order to detect the conveyance failure, sensing means for detecting the moveable member further away from stationary member than the minimum preset width of the gap (Column 3: line 36-47, line 46-49).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a sensor coupled to the paper leveling gap, detecting curl paper ends, folds at the end of the roll that are too pronounced and that could potentially lead to jamming of the paper sensing means for detecting

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the moveable member further away from stationary member than the minimum preset width of the gap as taught by Stoeberl. The motivation of doing so is in order to avoid a malfunctioning paper feed therefore obtain a high paper consumption.

Response to Arguments

4. Applicant's arguments with respect to claims 1-5 and 11-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 703-308-0752. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Adams Russ can be reached on 703-308-2847. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0967.

May 5, 2003

JUDY NGUYEN
PRIMARY EXAMINER